Special Issue

Machine Learning Algorithms for Power Systems and Renewable Energy Applications

Message from the Guest Editors

This Special Issue is dedicated to contributions that explore the application of ML techniques in modern power systems. Contributions are encouraged in, but not restricted to, the following areas:

- Forecasting renewable energy production using advanced ML techniques.
- ML algorithms to implement strategies to counteract the variability from RESs in power systems.
- Surrogate modeling of computationally intensive simulations and routines in power systems using ML.
- Integration of ML, Internet of Things, and big data analysis for energy efficiency enhancement.
- Predictive modeling of electricity prices using ML.
- Bidding strategy optimization in energy markets through ML algorithms.
- Smart control and optimization of Battery Energy Storage Systems via ML.
- Enhancing Energy Management Systems through ML-based optimization tools.
- Improving grid operations (e.g., reconfiguration and fault detection) using ML approaches.

Guest Editors

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Deadline for manuscript submissions

10 January 2026

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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